



The Royal Institution of Naval Architects  
**LNG/LPG and Alternative Fuel Ships**

29 - 30 January 2020, London, UK

<b>Wednesday 29<sup>th</sup> January</b>	
<b>08.50-09.20</b>	<b>Coffee and Registration</b>
09.20-09.25	<b>Welcome Address</b> , <i>D. Ponkratov, Technical Director, The Royal Institution of Naval Architects, UK</i>
09.25-09.55	<b>Keynote</b> - <i>Kirsi Tikka, Independent Director and Technical Advisor</i>
09.55-10.30	<b>Purpose designed LNG bunkering vessels (LBV): a 2020 update on characteristics and features</b> <i>R. Tustin, W.-J. Choi, J. Navarro, Lloyds Register, UK</i>
<b>10.30-10.50</b>	<b>Coffee</b>
10.50-11.25	<b>Practical lessons learned from the use of LNG over the past decade</b> <i>G. Plevrakis, ABS, Greece</i>
11.25-12.00	<b>LNG Bunker Vessel Design and Operation</b> <i>K. W. Hutchinson, D. C. Dobson, Safinah Group, UK</i>
<b>12.00-13.30</b>	<b>Lunch</b>
13.30-14.05	<b>Conversion of an LNG carrier to Floating Storage and Regasification Unit</b> <i>R. Bhat, University of Strathclyde, UK</i>
14.05-14.40	<b>A Review of Mooring System Solutions for FSRUs</b> <i>G. Mortola, J. Dunstan, London Marine Consultants Ltd., UK</i>
14.40-15.15	<b>Numerical Investigation on Coupling Dynamic Performance of FLNG and LNG Carrier during Side-By-Side Offloading Operation</b> <i>A. Nair, Houlder, UK</i> <i>Z. Hu, Newcastle University, UK</i>
<b>15.15-15.45</b>	<b>Coffee</b>
15.45-16.20	<b>Port Design for Small LNG Carriers</b> <i>A.P. Crowle, McDermott, UK</i>
<b>16.55-18.30</b>	<b>Discussion and Drinks Reception</b>



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08.55-09.20	<b>Coffee and Registration</b>
09.20-09.55	<b><i>Future fuels for commercial shipping</i></b> <i>J. Buckingham, BMT, UK</i>
09.55-10.30	<b><i>MAN B&amp;W Dual Fuel Engines</i></b> <i>K. Aabo, MAN</i>
10.30-10.50	<b>Coffee</b>
10.50-11.25	<b><i>Evaluation of LNG cryogenic energy utilization in seawater desalination on LNG fuelled ships</i></b> <i>M. Liu, Newcastle University, UK</i>
11.25-12.00	<b><i>The challenges of LH<sub>2</sub> and LCO<sub>2</sub> shipping</i></b> <i>C. Guerrero, Bureau Veritas, France</i>
12.00-13.00	<b>Lunch</b>
13.00-13.35	<b><i>TBC</i></b> <i>N. de Vries, C-Job, the Netherlands</i>
13.35-14.10	<b><i>A performance and emission investigation of a marine diesel fuelled with B20, B50 and B100 microalgae (Schizochytrium sp.) oil without chemical additive</i></b> <i>H. M Attar, Newcastle University, UK and King Abdulaziz University, SA</i> <i>D. Wu and A. P. Harvey, Newcastle University, UK</i>
14.10-14.30	<b><i>A Comparison of Hydrogen and Ammonia for Future Long Distance Shipping Fuels</i></b> <i>C. J. McKinlay, S. R. Turnock, D. A. Hudson, University of Southampton, UK</i>
14.45-15.05	<b>Coffee</b>
15.05-16.05	<b>Final Address and discussion</b>
16.05-17.00	<b>Closure</b>